## Guide and worked examples on No Detriment - Proportion of completed assessment and Calculation of Baseline and Final Grade Point Average in Session 2019-20

The examples below show the application of the stages described in the No Detriment policy on a number of different programmes with various different scenarios where the student is eligible for award.

Volume of assessment completed
The volume of assessment completed is calculated in relation to all relevant assessment associated with the programme. On honours and integrated masters programmes any programme-specific weighting of the different years is ignored. E.g. on an honours programme where a student takes 120 credits in junior honours and in senior honours, if they have completed all the assessment in junior honours and half of all assessment associated with the senior honours year, they will have completed $75 \%$ of the volume of programme assessment. The fact that in calculating final classification the junior honours and senior honours years are weighted differently (e.g. $40: 60$ ) is irrelevant.

Grade point average
While the No Detriment policy has introduced rules to be applied to reflect disruption caused by the Covid-19 pandemic, normal principles relating to calculation of grade point averages still apply: the grade points associated with components of assessment reflect the credit weighting of the course and the weighting that the component carries for that course. E.g. A component of assessment carrying a $40 \%$ weighting on a 20 credit course, will be included in GPA calculations as (Component weighting $\times$ number of credits), that is, ( $0.4 \times 20$ ).

Calculating the GPA for a full year is carried out by aggregating the grade points associated with overall course grades. In relation to GPAs being calculated for 2019-20, this position is varied by the No Detriment policy. The policy requires GPA to be calculated by using specific components of assessment:

- Baseline GPA is calculated by aggregating all components of assessment that have been completed by 15 March
- Final GPA is calculated by aggregating the baseline GPA and selected components of assessment that are completed after 15 March.

In other words, not all components of assessment associated with a course are always included in a calculation. Even where all components of assessment for a course are to be included in the GPA, they should be included in the aggregation as components and not as overall course grades. E.g. on a course with two components of assessment each weighted $50 \%$, where one is graded A5 (18 grade points) and the other is graded C2 (13 grade points), if both components are to be included in the GPA they should be included as two components ( $0.5 \times 18$ and $0.5 \times$ 13) rather than as an overall course (graded B2 carrying 16 grade points).

In some of the examples that follow some components of assessment are missing. This should be taken into account in the calculations in the usual way. For example, for a senior honours student where a component of assessment from junior honours has been missed with good cause and (unusually) there has been no opportunity to complete the assessment, that component of assessment is discarded entirely from the
calculation of GPA with the weighting carried by that year reduced accordingly. If an exam weighted $40 \%$ on a 20 credit course was missed with good cause, in GPA calculations the full weighting of junior honours assessment would be reduced as follows:
$1.00-[(0.4 \times 20) / 120]=0.93$, that is to $93 \%$.
Where an assessment has been missed without good cause, in calculating the GPA that assessment is still included in the amount of assessment taken but with an H grade which equates to 0 grade points for the component.

## List of Examples

Example 1 - Senior Honours student, all senior honours courses equally weighted, all assessment components completed, weighting applied in the calculation of final degree classification: $\mathrm{JH} 40 \%$ SH $60 \%$. More than $65 \%$ of assessment completed by 15 March

Example 2 - Senior Honours student, all senior honours courses equally weighted, weighting applied in the calculation of final degree classification: JH $50 \%$ SH $50 \%$, some assessment components missing. Less than $65 \%$ of assessment completed by 15 March

Example 3 - Senior Honours student, all senior honours courses equally weighted, weighting applied in the calculation of final degree classification: $\mathrm{JH} 50 \% \mathrm{SH} 50 \%$, some assessment components missing. Less than $65 \%$ of assessment completed by 15 March. After adding in component results after 15 March that are equal to or better than the baseline GPA there is still less than $65 \%$ of the assessment included.

Example 4 - Combined/Joint Honours student: all senior honours courses equally weighted, one assessment component missing with good cause, weighting applied in the calculation of final degree classification: JH $50 \%$ SH $50 \%$. Less than $65 \%$ of assessment completed by 15 March. Joint degree Subject A and Subject B.
Example 5 - PGT programme, 120 credits of taught courses comprised of six 20 credit courses. More than $65 \%$ of assessment completed by 15 March.

Example 6 - PGT programme, 120 credits of taught courses comprised of five 20 credit courses and two 10 credit courses. Less than $65 \%$ of assessment completed by 15 March. Two components of assessment not submitted.

Example 7 - Ordinary/designated degree final year student. Year 3 curriculum consisting of three Level 320 credit courses and three Level 2 20 credit courses. Less than $65 \%$ of L3 assessment on 60 credits complete.

Example 8 - Ordinary/designated degree final year student - Year 3 curriculum consisting of six Level 320 credit courses. Less than 65\% of L3 assessment on 60 credits complete.

Example 9 - Application of a penalty applied under the Code of Student Conduct for academic misconduct.

Example 1: Senior Honours student, all senior honours courses equally weighted, all assessment components completed, weighting applied in the calculation of final degree classification: JH 40\% SH 60\%. More than $65 \%$ of assessment completed by 15 March.

All junior honours assessment completed ( 120 credits: $6 \times 20$ credit courses): overall JH GPA is 14.9.
All six senior honours courses are worth 20 credits.
$\left.\begin{array}{|l|l|l|l|l|l|l|}\hline & \text { Semester 1 } & \begin{array}{l}\text { Course } \\ \text { grade }\end{array} & \begin{array}{l}\text { Semester 2 } \\ \text { By 15 March 2020 }\end{array} & \begin{array}{l}\text { Course } \\ \text { grade }\end{array} & \begin{array}{l}\text { Component grade points to } \\ \text { include in baseline GPA }\end{array} & \begin{array}{l}\text { Completed after 15 March, } \\ \text { including April/May } \\ \text { assessment diet }\end{array} \\ \hline \text { Junior honours } & & & & & 14.9 \text { (assessment complete) }\end{array}\right]$

NYA = not yet available

## Volume of assessment completed by $\mathbf{1 5}$ March 2020

|  |  | Amount of programme <br> assessment complete (\%) |
| :--- | :--- | :---: |
| Junior honours |  | 50.0 |
| Senior honours |  | 8.3 |
| Course 1 | Essay (50\%) <br> Essay (50\%) | 2.5 |
| Course 2 | Seminar (30\%) | 2.5 |
| Course 3 | Essay (30\%) | 5.0 |
| Course 4 | Project (60\%) |  |
| Course 5 |  |  |
| Course 6 | Total | 68.3 |

The assessment associated with each senior honours course represents $8.3 \%$ of the total honours assessment ( 20 credits for each course divided by 240 credits total). The weighting of each assessment within that $8.3 \%$ for each course can then be used to work out what has been completed of the programme assessment.

In this case, by 15 March 2020, the student has completed $68.3 \%$ of the assessment associated with the whole honours programme.

## Baseline GPA

JH is weighted $40 \%$ and SH is weighted $60 \%$ in the calculation of final degree classification.
The baseline GPA includes assessments taken in both years. The junior honours GPA is calculated by aggregating course grades, as usual. The SH contribution to baseline GPA, however, is calculated from assessment components only, and no reference should be made to rounded course grades (e.g. where all assessment was completed in semester 1 and a final overall course grade is available).

Baseline GPA requires two things to be aggregated as follows:

## 1. GPA from JH

Example 1 gives a value of 14.9 that has been calculated by aggregating course results. (An unrounded value should be used, so this value can have more than one decimal place.)

## 2. GPA from components of SH assessment completed by $\mathbf{1 5}$ March

All assessment components (NOT course results) should be aggregated using the appropriate course and component weighting.
Example 1 shows the following components completed by 15 March:
Course 1 - Essay (50\%) B2 (16 grade points)
Course 1 - Essay (50\%) C1 (14)
Course 2 - Seminar (30\%) A5 (18)
Course 3 - Essay (30\%) B3 (15)
Course 4 - Project (60\%) A5 (18)
Course 5 - no assessment completed yet
Course 6 - no assessment completed yet
All courses carry 20 credits. As the courses carry equal credit weighting, this is not shown here as being factored into the calculation.
SH assessment components contributing to the baseline GPA = (Essay Course $1+$ Essay Course $1+$ Seminar Course $2+$ Essay Course $3+$
Project Course 4) / weighting of completed components

$$
\begin{aligned}
& =[(16 \times 0.5)+(14 \times 0.5)+(18 \times 0.3)+(15 \times 0.3)+(18 \times 0.6)] /(0.5+0.5+0.3+0.3 \\
& +0.6) \\
& =16.2273
\end{aligned}
$$

Baseline GPA aggregates 1. and 2.
In this case JH: SH was weighted $40: 60$.
The JH GPA contains $100 \%$ of the JH assessment i.e. ( $14.9 \times 0.4$ )
The SH contribution to baseline GPA is based on only $36.6 \%$ of the total SH assessment. It is therefore re-weighted in the baseline calculation ( $16.2273 \times 0.6 \times 0.366$ )

Baseline GPA $=$ (completed JH GPA + completed proportion of SH GPA) / proportion of honours assessment completed

$$
\begin{aligned}
& =(14.9 \times 0.4)+(16.2273 \times 0.6 \times .0 .366) /[0.4+(0.6 \times 0.366)] \\
& =(5.96+3.5635) / 0.6196 \\
& =15.3704 \text { rounded to } \underline{15.4}
\end{aligned}
$$

## Final GPA

By 15 March the student had completed $68.3 \%$ of all honours assessment, i.e. more than $65 \%$ of the assessment required for the award, so in order to calculate final GPA, only results that are equal to or above the baseline GPA will be included, and any assessment results that are below the baseline GPA or are not taken will be disregarded.

Components completed after 15 March:
Course 1 - none
Course 2 - Exam (70\%) B2 (16 grade points) - Include in final GPA
Course 3 - Project (70\%) C1 (14) - Disregard as < 15.4
Course 4 - Exam (40\%) C3 (12) - Disregard as < 15.4
Course 5 - Essay (60\%) B1 (17) - Include in final GPA
Course 5 - Exam (40\%) C1 (14) - Disregard as < 15.4
Course 6 - Dissertation (100\%) C1 (14) - Disregard as < 15.4
The baseline GPA included the $36.6 \%$ of SH assessment that had been completed by 15 March. The two additional components to be included in the final GPA from the SH assessment completed after 15 March are weighted appropriately in the calculation:
Contribution of the additional components to be included in final GPA = (Course 2 Exam B2 (70\%)) + (Course 5 Essay B1 (60\%)) / weighting of additional components

$$
\begin{aligned}
& =[(16 \times 0.7)+(17 \times 0.6)] /(0.7+0.6) \\
& =16.4615
\end{aligned}
$$

Proportion of SH assessment represented by the additional components (from the 6 SH courses $)=(0.7+0.6) / 6$

$$
=0.2166
$$

Recalculating baseline GPA to arrive at final GPA as follows:
Final GPA $=(\mathrm{JH}$ GPA + proportion of SH GPA in baseline GPA + included proportion of SH assessment completed after 15 March $) /$ total proportion of included honours assessment

$$
\begin{aligned}
& =[(14.9 \times 0.4)+(16.2273 \times 0.6 \times 0.366)+(16.4615 \times 0.6 \times 0.2166)] /[0.4+(0.6 \times 0.366)+(0.6 \times 0.2166)] \\
& =(5.96+3.5635+2.1393) / 0.4+0.2196+0.1300 \\
& =11.6628 / 0.7496 \\
& =15.5587 \text { rounded to } \underline{15.6}
\end{aligned}
$$

## Notes

## 1. Integrated masters students

The same approach should be applied but there will be a GPA from both year 3 and year 4 to be included in the baseline GPA.

## 2. Option for final honours/integrated masters students to resit the full April/May exam diet.

The No Detriment policy offers students who are eligible to graduate the option of resitting the entire April/May exam diet. (See Appendix 2 of the No Detriment policy for further information on this.) In Example 1 this would mean that the student would resit the exams for courses 2,4 and 5. The final GPA would then be recalculated with reference to the results obtained in these exams. The results from the same exams taken in April/May would not be taken into account.

In Example 1 the result from the course 2 exam, B2, was included in the final GPA as it was better than the baseline GPA of 15.4. If in the August diet the student achieved a C 1 in the exam that result would be disregarded and the B2 achieved at the April/May diet would not be reinstated. Conversely, while neither of the other two exam results from the April/May diet was included in the final GPA because they were below the baseline GPA, if in August either or both results are better than the baseline value of 15.4 they would be included in the final GPA.

## 3. Continuing honours and integrated masters students

No interim baseline GPA should be calculated for the components of assessment completed by 15 March: the overall baseline value will incorporate assessment results from senior honours that are deemed not to have been affected by the Covid pandemic. Details of this will follow when known. Until the overall baseline GPA is established it will not be possible to identify those assessments from the Covid period that will be disregarded from the final GPA.

Example 2: Senior Honours student, all senior honours courses equally weighted, weighting applied in the calculation of final degree classification: JH 50\% SH 50\%, some assessment components missing - less than $65 \%$ of assessment completed by 15 March.

Junior honours assessment completed ( 120 credits: $6 \times 20$ credit courses) except two items not submitted: one essay worth $50 \%$ of the course assessment without good cause and one exam worth $75 \%$ of the course assessment with good cause accepted. Overall JH GPA is 14.9, with one course recoded as CW and one as MV

All six senior honours courses are worth 20 credits. One essay from semester 1 missed through Good Cause (Course 1).

|  | Semester 1 | Course grade | Semester 2 <br> By 15 March 2020 | Course grade | Component grade points to include in baseline GPA | Completed after 15 March, including April/May assessment diet |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Junior honours |  |  |  |  | 14.9 (but assessment incomplete) |  |
| Senior honours |  |  |  |  |  |  |
| Course 1 20 credits | Essay (50\%) Good Cause; Essay (50\%) C1 | MV |  |  | 14 (50\% component) |  |
| Course 2 20 credits | Seminar (30\%) A5 | NYA |  |  | 18 (30\% component) | Exam (70\%) B2 |
| Course 3 20 credits | Essay (30\%) B3 | NYA |  |  | 15 (30\% component) | Project (70\%) B2 |
| Course 4 20 credits |  |  | Project (60\%) A5 | NYA | 18 (60\% component) | Exam (40\%) C3 |
| Course 5 20 credits |  |  |  |  |  | Essay (60\%) B1 Exam (40\%) C1 |
| Course 6 20 credits |  |  |  |  |  | Dissertation (100\%) C1 |

NYA = not yet available

## Volume of assessment completed by 15 March 2020

|  |  | Amount of programme <br> assessment complete (\%) |
| :--- | :--- | :---: |
| Junior honours <br> (Six 20 credit courses) <br> 2 components missing: <br> $50 \%$ essay (CW) |  | 39.6 |
| $75 \%$ exam (MV) |  |  |
| Senior honours |  |  |
| Course 1 | Essay (50\%) | 4.2 |
| Course 2 | Seminar (30\%) | 2.5 |
| Course 3 | Essay (30\%) | 2.5 |
| Course 4 | Project (60\%) | 5.0 |
| Course 5 |  |  |
| Course 6 | Total | 53.8 |
|  |  |  |

The two missing components of assessment reduce the proportion of programme assessment completed for junior honours from $50 \%$ to $39.6 \%$ (as a $50 \%$ weighted component and a $75 \%$ weighted component are missing respectively of 20 credit courses - each worth $8.3 \%$ of the programme - meaning that $10.4 \%$ of the programme assessment has not been completed in this year).

The assessment associated with each senior honours course represents $8.3 \%$ of the total honours assessment ( 20 credits for each course divided by 240 credits total). One essay has been missed through Good Cause.

In this case, by 15 March 2020, the student has completed $53.8 \%$ of the assessment associated with the whole honours programme.

## Baseline GPA

JH and SH are equally weighted in the calculation of final degree classification.
The baseline GPA includes assessments taken in both years. The junior honours GPA is calculated by aggregating course grades, as usual. The SH contribution to baseline GPA, however, is calculated from assessment components only, and no reference should be made to rounded course grades Baseline GPA requires two things to be aggregated:

## 1. GPA from JH

Example 2 gives a value of 14.9 that has been calculated by aggregating course results. (An unrounded value should be used, so this value might have more than one decimal place.)

Note for the purposes of calculating baseline GPA the $50 \%$ weighted essay (missed without good cause) is treated as a completed component of assessment for which a zero is included in the aggregation.

The weighting carried by the JH year should, however, be reduced in relation to the exam that was missed with good cause (weighted at $75 \%$ of one of the six JH courses).

Proportion of JH assessment 'completed' for the purposes of calculation of GPA $=50-[(0.75 \times 1 / 6) \times 50]=43.8$
In other words, instead of representing $50 \%$ of the programme GPA, completed junior honours assessment now carries a weighting of $43.8 \%$.
2. GPA from components of SH assessment completed by $\mathbf{1 5}$ March

All assessment components (NOT course results) should be aggregated using the appropriate course and component weighting.
Example 2 shows the following components completed by 15 March:
Course 1 - Essay (50\%) C1 (14 grade points)
Course 2 - Seminar (30\%) A5 (18)
Course 3 - Essay (30\%) B3 (15)
Course 4 - Project (60\%) A5 (18)
Course 5 - no assessment completed yet
Course 6 - no assessment completed yet
A second essay on Course 1 scheduled by 15 March was missed with good cause accepted.
All courses carry 20 credits. As the courses carry equal credit weighting, this is not shown here as being factored into the calculation:
SH assessment components contributing to the baseline GPA = (Essay Course $1+$ Seminar Course $2+$ Essay Course $3+$ Project Course 4)/ weighting of completed components
$=[(14 \times 0.5)+(18 \times 0.3)+(15 \times 0.3)+(18 \times 0.6)] /(0.5+0.3+0.3+0.6)$
$=16.2941$

Proportion of SH assessment represented by SH assessment components contributing to the baseline GPA
$=(0.5+0.3+0.3+0.6) / 6$
$=0.283$, or $28.3 \%$
Baseline GPA aggregates 1. and 2.
In this case JH: SH was weighted 50 : 50
The JH GPA is based on $43.8 \%$ of the total JH assessment (14.9 x 0.438)
The SH contribution to baseline GPA is based on only $28.3 \%$ of the total SH assessment. It is therefore weighted in the baseline calculation $(16.2941 \times 0.283 \times 0.5)$

Baseline GPA $=$ JH GPA + proportion of SH GPA

$$
\begin{aligned}
& =(14.9 \times 0.438)+(16.2941 \times 0.283 \times 0.5) /[0.438+(0.283 \times 0.5)] \\
& =(6.5262+2.3056) / 0.5795 \\
& =15.2403 \text { rounded to } 15.2
\end{aligned}
$$

## Final GPA

By 15 March the student had completed $53.8 \%$ of all honours assessment, i.e. less than $65 \%$ of the assessment required for the award, so in order to calculate final GPA, assessment results that are equal to or above the baseline GPA will be included. If this still leaves less than $65 \%$ completed, further assessment results, starting with the best must be included in the final GPA.

Components completed after 15 March:
Course 1 - none
Course 2 - Exam (70\%) B2 (16 grade points) - Include in final GPA
Course 3 - Project (70\%) B2 (16) - Include in final GPA
Course 4 - Exam (40\%) C3 (12) - Disregard as < 15.2
Course 5 - Essay (60\%) B1 (17) - Include in final GPA ; Exam (40\%) C1 (14) - Disregard as < 15.2
Course 6 - Dissertation (100\%) C1 (14) - Disregard as < 15.2
The baseline GPA included the $28.3 \%$ of SH assessment that had been completed by 15 March. The three additional components to be included in the final GPA from the SH assessment completed after 15 March are weighted appropriately in the calculation:

Contribution of the additional components to be included in final GPA = (Course 2 exam B2 (70\%)) + (Course 3 project B2 (70\%) + (Course 5 essay B1 (60\%)) / weighting of additional included components

$$
\begin{aligned}
& =[(16 \times 0.7)+(16 \times 0.7)+(17 \times 0.6)] /(0.7+0.7+0.6) \\
& =16.3
\end{aligned}
$$

Proportion of SH assessment represented by the additional included components $=(0.7+0.7+0.6) / 6$

$$
=0.3333
$$

This brings the total amount of assessment included in the GPA to $53.8 \%+(0.5 \times 33.3 \%)=70.5 \%$. This means that the minimum of $65 \%$ of taught course assessment is included and gives a final taught courses GPA.

Recalculating baseline GPA to arrive at final GPA as follows:
Final GPA $=(\mathrm{JH}$ GPA + proportion of SH GPA in baseline GPA + included proportion of SH assessment completed after 15 March$) /$ total proportion of included honours assessment


```
= (6.5262+2.3056 + 2.714)/ (0.438+0.142+0.167)
= 11.5458/0.747
= 15.4562 rounded to 15.5
```

Example 3: Senior Honours student, all senior honours courses equally weighted, weighting applied in the calculation of final degree classification: JH 50\% SH 50\%, some assessment components missing - less than $\mathbf{6 5 \%}$ of assessment completed by 15 March.
After adding in component results after 15 March that are equal to or better than the baseline GPA there is still less than $65 \%$ of the assessment included.

Junior honours assessment completed (120 credits: $6 \times 20$ credit courses) except two items not submitted: one essay worth $50 \%$ of the course assessment without good cause (CW) and one exam worth $75 \%$ of the course assessment with good cause accepted (MV). The JH GPA is 14.9 .

All six senior honours courses are worth 20 credits. One essay from semester 1 missed through Good Cause (Course 1).

|  | Semester 1 | Course grade | Semester 2 <br> By 15 March 2020 | Course grade | Component grade points to include in baseline GPA | Completed after 15 March, including April/May assessment diet |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Junior honours |  |  |  |  | 14.9 (but assessment incomplete) |  |
| Senior honours |  |  |  |  |  |  |
| Course 1 20 credits | Essay (50\%) Good Cause; Essay (50\%) C1 | MV |  |  | 14 (50\% component) |  |
| Course 2 20 credits | Seminar (30\%) A5 | NYA |  |  | 18 (30\% component) | Exam (70\%) D2 |
| Course 3 20 credits | Essay (30\%) B3 | NYA |  |  | 15 (30\% component) | Project (70\%) B2 |
| Course 4 20 credits |  |  | Project (60\%) A5 | NYA | 18 (60\% component) | Exam (40\%) C2 |
| Course 5 20 credits |  |  |  |  |  | Essay (50\%) B1 Exam (50\%) C2 |
| Course 6 20 credits |  |  |  |  |  | Dissertation (100\%) C1 |

NYA = not yet available

## Volume of assessment completed by 15 March 2020

|  |  | Amount of programme <br> assessment complete (\%) |
| :--- | :--- | :---: |
| Junior honours |  |  |
| (Six 20 credit courses) |  |  |
| 2 components missing: |  |  |
| $50 \%$ essay (CW) |  |  |
| $75 \%$ exam (MV) |  |  |$\quad$|  |  |
| :---: | :---: |
| Senior honours |  |
| Course 1 | Essay (50\%) |
| Course 2 | Seminar (30\%) |
| Course 3 | Essay (30\%) |
| Course 4 | Project (60\%) |
| Course 5 |  |
| Course 6 |  |
|  | Total |

The two missing components of assessment reduce the proportion of programme assessment completed for junior honours from $50 \%$ to $39.6 \%$ (as a $50 \%$ weighted component and a $75 \%$ weighted component are missing respectively of 20 credit courses - each worth $8.3 \%$ of the programme - means that $10.4 \%$ of the programme assessment has not been completed in this year).

The assessment associated with each senior honours course represents $8.3 \%$ of the total honours assessment ( 20 credits for each course divided by 240 credits total). One essay has been missed through Good Cause.

In this case, by 15 March 2020, the student has completed $53.8 \%$ of the assessment associated with the whole honours programme.

## Baseline GPA

JH and SH are equally weighted in calculation of final degree classification.
The baseline GPA includes assessments taken in both years. The junior honours GPA is calculated by aggregating course grades, as usual. The SH contribution to baseline GPA, however, is calculated from assessment components only, and no reference should be made to rounded course grades. Baseline GPA requires two things to be aggregated:

## 1. GPA from JH

Example 3 gives a value of 14.9 that has been calculated by aggregating course results. (An unrounded value should be used, so this value might have more than one decimal place.)

Note for the purposes of calculating baseline GPA the $50 \%$ weighted essay (missed without good cause) is treated as a completed component of assessment for which a zero is included in the aggregation.

The weighting carried by the JH year should, however, be reduced in relation to the exam that was missed with good cause (weighted at $75 \%$ of one of the six JH courses).

Proportion of JH assessment 'completed' for the purposes of calculation of GPA $=50-[(0.75 \times 1 / 6) \times 50]=43.8$
In other words, instead of representing $50 \%$ of the programme GPA, completed junior honours assessment now carries a weighting of $43.8 \%$.

## 2. GPA from components of SH assessment completed by $\mathbf{1 5}$ March

All assessment components (NOT course results) should be aggregated using the appropriate course and component weighting.
Example 2 shows the following components completed by 15 March:
Course 1 - Essay (50\%) C1 (14 grade points)
Course 2 - Seminar (30\%) A5 (18)
Course 3 - Essay (30\%) B3 (15)
Course 4 - Project (60\%) A5 (18)
Course 5 - no assessment completed yet
Course 6 - no assessment completed yet
A second essay on Course 1 scheduled by 15 March was missed with good cause accepted.
All courses carry 20 credits. As the courses carry equal credit weighting, this does not need to be factored into the calculation:
SH assessment components contributing to the baseline GPA = (Essay Course $1+$ Seminar Course $2+$ Essay Course $3+$ Project Course 4) / weighting of included components
$=[(14 \times 0.5)+(18 \times 0.3)+(15 \times 0.3)+(18 \times 0.6)] /(0.5+0.3+0.3+0.6)$
$=16.2941$

Proportion of SH assessment represented by SH assessment components contributing to the baseline GPA
$=(0.5+0.3+0.3+0.6) / 6$
$=0.283$, or $28.3 \%$
Baseline GPA aggregates 1. and 2.
In this case JH: SH was weighted 50 : 50
The JH GPA is based on $43.8 \%$ of the total JH assessment ( $14.9 \times 0.438$ )
The SH contribution to baseline GPA is based on only $28.3 \%$ of the total SH assessment. It is therefore weighted in the baseline calculation $(16.2941 \times 0.283 \times 0.5)$

Baseline GPA $=$ JH GPA + proportion of SH GPA

$$
\begin{aligned}
& =(14.9 \times 0.438)+(16.2941 \times 0.283 \times 0.5) /[0.438+(0.283 \times 0.5)] \\
& =(6.5262+2.3056) / 0.5795 \\
& =15.2403 \text { rounded to } 15.2
\end{aligned}
$$

## Final GPA

By 15 March the student had completed $53.8 \%$ of all honours assessment, i.e. less than the $65 \%$ of assessment required for the award so in order to calculate final GPA, assessment results that are equal to or above the baseline GPA will be included. If this still leaves less than $65 \%$ completed, further assessment results, starting with the best must be included in the final GPA.

Components completed after 15 March:
Course 1 - none
Course 2 - Exam (70\%) D2 (10 grade points)
Course 3 - Project (70\%) B2 (16) - Include in final GPA
Course 4 - Exam (40\%) C2 (13)
Course 5 - Essay (50\%) B1 (17) - Include in final GPA ; Exam (50\%) C2 (13)
Course 6 - Dissertation (100\%) C1 (14)
There are two components of assessment completed after 15 March where the result is equal to or greater than the baseline GPA, that is the Course 3 project ( $70 \%$ weighting), graded B2 (16) and the Course 5 essay ( $50 \%$ weighting), graded at B1 (17). These will be included in the final GPA weighted appropriately in the calculation:

Contribution of the additional components to be included in final GPA $=($ Course 3 project $\mathrm{B} 2(70 \%))+($ Course 5 essay B1 (50\%)) / weighting of additional included components
$=[(16 \times 0.7)+(17 \times 0.5)] /(0.7+0.5)$
= $19.7 / 1.2$
$=16.4167$
Course 3 project and Course 5 essay represent $(0.7+0.5) / 6=0.2$, i.e. $20 \%$ of SH assessment.
Each course represents $8.3 \%$ of total honours assessment. Including the Course 3 project and the Course 5 essay, the total proportion of assessment included in the GPA is:
= Amount of assessment completed by 15 March + Course 3 project + Course 5 essay
$=53.8+(0.7 \times 8.3)+(0.5 \times 8.3)$
= 63.8\%
As there are no remaining completed components where the result is equal to or greater than baseline GPA, the next best results must be included until the $65 \%$ threshold has been met.

A minimum of $1.2 \%$ of the assessment must still be added (that is, $65-63.8 \%$ ).
Each course represents $8.3 \%$ of the total honours assessment. The smallest remaining component is Course 4 exam, weighted $40 \%$. This would add $(0.4 \times 8.3)=3.3 \%$ to the amount of assessment included in the GPA, bringing the total above the $65 \%$ threshold. Therefore adding to the final GPA any of the remaining results will mean that the $65 \%$ minimum level is achieved. As these results are all below the baseline GPA, their inclusion will act to reduce the final GPA. The 'best' result will not necessarily be the component for which the highest grade was achieved. In this case the dissertation received the next highest grade, C1, but it carries a $100 \%$ weighting. This will have a greater negative impact on the final GPA than a less heavily weighted component with only a slightly lower result. This is illustrated in the following:
Course 4 exam is weighted $40 \%$, graded C2. This represents $0.4 / 6=0.0667$, i.e. $6.7 \%$ of SH assessment.
Course 6 dissertation is weighted $100 \%$, graded C1. This represents $1 / 6=0.1667$, i.e. $16.7 \%$ of SH assessment.


The difference between the two final GPAs is very small (and in this case is eliminated by rounding) but including the smaller component (Course 4 exam) produces the higher value.

Example 4: combined/joint honours: senior honours student, all senior honours courses equally weighted, one assessment component missing with good cause. Weighting applied in the calculation of final degree classification: Subject A: JH 40\% SH 60\%; weighting applied in Subject B JH 50\% SH $50 \%$. More than $65 \%$ of assessment already completed by 15 March.

All junior honours assessment completed (120 credits)
Subject A: 60 credits with a GPA of 13.25 - weighted $40 \%$ of subject A for honours classification
Subject B: 60 credits with a GPA of 16.5 - weighted $50 \%$ of subject B for honours classification
All six senior honours courses are worth 20 credits.

|  | Semester 1 | Course grade | Semester 2 <br> By 15 March 2020 | Course grade | Grade points to include in baseline GPA | Completed after 15 March, including April/May assessment diet |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Junior honours |  |  |  |  |  |  |
| Subject A 13.25 |  |  |  |  |  |  |
| Subject B 16.5 |  |  |  |  |  |  |
| Senior honours |  |  |  |  |  |  |
| Subject A |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Course 1 | Essay (50\%) B2 (16) | NYA |  |  |  | Exam (50\%) C1 (14) |
| Course 2 | Project (100\%) B3 (15) | B3 |  |  |  |  |
| Course 3 | Essay (50\%) missed with good cause (MV) |  |  |  |  | Exam (50\%) D3 (9) |
|  |  |  |  |  |  |  |
| Subject B |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Course 4 |  |  | Essay (50\%) C2 (13) |  |  | Essay (50\%) B1 (17) |
| Course 5 |  |  |  |  |  | Exam (100\%) D1 (11) |
| Course 6 |  |  |  |  |  | Dissertation (100\%) C1 (14) |

## Baseline GPA

A combined baseline GPA for subject $A$ and subject $B$ will comprise the following:

- Subject A junior honours GPA weighted at $40 \%$ for the subject
- Subject A senior honours assessment completed by 15 March, weighted at the appropriate proportion of $60 \%$ for the subject
- Subject B junior honours GPA weighted at $50 \%$ for the subject
- Subject B senior honours assessment completed by 15 March, weighted at the appropriate proportion of $50 \%$ for the subject.

Subject A junior honours GPA $=13.25$ ( 60 credits) weighted at $40 \%$ of subject $A$
The contribution to baseline GPA will be GPA $x$ proportion of subject A honours assessment x classification weighting

$$
=13.25 \times 0.5 \times 0.4
$$

$$
=2.65
$$

Subject A senior honours assessment completed by 15 March
All assessment components (NOT course results) should be aggregated using the appropriate course and component weighting.
Example 4 shows the following components completed by 15 March:
Course 1 - Essay (50\%) B2 (16 grade points)
Course 2 - Project (100\%) B3 (15)
Course 3 - none (Essay missed with good cause accepted)
All courses carry 20 credits. As the courses carry equal credit weighting, this is not shown here as factored into the calculation:
Subject A SH assessment components contributing to the baseline GPA = (Essay Course $1+$ Project Course 2 ) / weighting of included components
$=[(16 \times 0.5)+(15 \times 1.0)] /(0.5+1.0)$
$=15.3333$
The proportion of Subject A SH assessment (3 courses) completed by 15 March $=1.5 / 3$

$$
=0.5
$$

The Subject A SH contribution to baseline GPA will be GPA x proportion of subject A honours assessment x classification weighting

$$
\begin{aligned}
& =15.3333 \times 0.5 \times 0.5 \times 0.6 \\
& =2.3
\end{aligned}
$$

## Subject B junior honours GPA $=16.5$ ( 60 credits) weighted at $50 \%$ for subject $B$

The contribution to baseline GPA will be GPA $\times$ proportion of subject $B$ honours assessment $\times$ classification weighting

$$
=16.5 \times 0.5 \times 0.5
$$

$$
=4.125
$$

Subject B senior honours assessment completed by 15 March
All assessment components (NOT course results) should be aggregated using the appropriate course and component weighting.
Example 4 shows the following components completed by 15 March:
Course 4 - Essay (50\%) C2 (13)
Course 5 - no assessment completed yet
Course 6 - no assessment completed yet
All courses carry 20 credits. As the courses carry equal credit weighting, this is not shown here as factored into the calculation:
Subject B SH assessment component contributing to the baseline GPA = (Essay Course 4)/weighting of included component $=(13 \times 0.5) / 0.5$
$=13$
The proportion of Subject B SH assessment (3 courses) completed by 15 March $=0.5$ / 3

$$
=0.1667 \text {, i.e. } 16.7 \%
$$

The Subject B SH contribution to baseline GPA will be GPA $x$ proportion of subject $B$ honours assessment $x$ classification weighting $=13 \times 0.5 \times 0.1667 \times 0.5$
$=0.5418$

Combined baseline GPA for subject $A$ and subject $B$ is therefore:

|  |  | GPA | Weighted proportion of honours <br> assessment | Grade points for combined baseline <br> GPA |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :---: | :---: | :---: | :---: | :---: |
| Subject A junior honours GPA (weighted at <br> 40\% for the subject) | 13.25 | $0.5 \times 0.4=0.2$ | 2.65 |  |  |  |  |  |  |
| Subject A senior honours assessment <br> completed by 15 March (weighted at the <br> appropriate proportion of 60\% for the subject) |  | 15.3333 | $0.5 \times(0.5 \times 0.6)=0.15$ | 2.3 |  |  |  |  |  |
| Subject B junior honours GPA (weighted at <br> $50 \%$ for the subject) | 16.5 | $0.5 \times 0.5=0.25$ | 4.125 |  |  |  |  |  |  |
| Subject B senior honours assessment <br> completed by 15 March (weighted at the <br> appropriate proportion of 50\% for the subject) |  | 13 | $0.5 \times(0.1667 \times 0.5)=0.041675$ | 0.5418 |  |  |  |  |  |
| Total |  |  |  |  |  |  |  | 0.641675 | 9.6168 |
|  |  |  |  |  |  |  |  |  |  |
| Combined baseline GPA | $=$ | total grade <br> points | $/$ weighted proportion of included honours assessment |  |  |  |  |  |  |

Final combined GPA
In order to calculate the final combined GPA, all components of assessment completed after 15 March where the result is equal to or greater than the combined baseline GPA should be included.

Components completed after 15 March:
Course 1 - Exam (50\%) C1 (14 grade points) - Disregard as <15.0
Course 2 - None
Course 3 - Exam (50\%) D3 (9) - Disregard as <15.0
Course 4 - Essay (50\%) B1 (17) - Include in final GPA
Course 5 - Exam (100\%) D1 (11) - Disregard as <15.0
Course 6 - Dissertation (100\%) C1 (14) - Disregard as <15.0

There is only one additional component (from subject B) to be included in the final GPA from the SH assessment completed after 15 March. This needs to be weighted appropriately in the calculation:
Contribution of the additional component to be included in final combined GPA $=$ (Course 4 Exam) / weighting of component

$$
\begin{aligned}
& =17 \times 0.5 / 0.5 \\
& =17
\end{aligned}
$$

The proportion of Subject B SH assessment represented by the additional component $=0.5 / 3$

$$
=0.1667
$$

Recalculating combined baseline GPA to arrive at final GPA as follows (additional component of assessment shown in bold):


Example 5: PGT programme, 120 credits of taught courses comprised of six 20 credit courses. More than $65 \%$ of assessment completed by 15 March.

A PGT programme consisting of six 20 credit taught courses and a 60 credit independent work (project or dissertation). Proportion of completed assessment relates only to the amount of assessment completed across the taught courses. The independent work must also be submitted.

|  | Semester 1 | Course grade | Semester 2 <br> By 15 March 2020 | Course grade | Component grade points to include in baseline GPA | Completed after 15 March, including April/May assessment diet |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Taught courses |  |  |  |  |  |  |
| Course 1 20 credits | $\begin{aligned} & \text { Essay (50\%) B2; } \\ & \text { Essay (50\%) C1 } \end{aligned}$ | B3 |  |  | 16 ( $50 \%$ weighting) 14 ( $50 \%$ weighting) |  |
| Course 2 20 credits | Seminar (40\%) A5 | NYA |  |  | 18 (40\% component) | Exam (60\%) B2 |
| Course 3 20 credits | Essay (30\%) B3; Project (70\%) D1 | C3 |  |  | 15 (30\% weighting) <br> 11 (70\% weighting) |  |
| Course 4 20 credits |  |  | Project (70\%) A5 | NYA | 18 (70\% component) | Exam (30\%) C3 |
| Course 5 20 credits |  |  | Essay (60\%) B3 | NYA |  | Exam (40\%) C1 |
| Course 6 20 credits |  |  | $\begin{aligned} & \text { Literature review } \\ & (50 \%) \text { C3 } \\ & \text { Essay (50\%) B2 } \end{aligned}$ | C1 | 12 (50\% weighting) <br> 16 (50\% weighting) |  |

[^0]
## Volume of assessment completed by $\mathbf{1 5}$ March 2020

|  |  | Amount of taught course <br> assessment complete across <br> the programme (\%) |
| :--- | :--- | :---: |
| Course 1 | Essay (50\%) <br> Essay (50\%) | 16.7 |
| Course 2 | Seminar (40\%) | 6.7 |
| Course 3 | Essay (30\%) |  |
| Project (70\%) |  |  |$\quad 16.7$

The assessment associated with each taught course represents $16.7 \%$ of the total taught course assessment ( 20 credits for each course divided by 120 taught credits total). The weighting of each assessment within that $16.7 \%$ for each course can then be used to work out what has been completed of the programme assessment.

In this case, by 15 March 2020, the student has completed $78.5 \%$ of the assessment associated with the taught courses.

## Baseline taught courses GPA

## PGT programme where all courses equally weighted

The baseline taught courses GPA is calculated from assessment components. No reference should be made to rounded course grades (e.g. where all assessment was completed in semester 1 and a final overall course grade is available).

Student's baseline taught courses GPA is calculated aggregating components of assessment completed by 15 March.
All assessment components should be aggregated using the appropriate component weighting.

Example 5 shows the following components completed by 15 March:
Course 1 - Essay (50\%) B2 (16 grade points)
Course 1 - Essay (50\%) C1 (14)
Course 2 - Seminar (40\%) A5 (18)
Course 3 - Essay (30\%) B3 (15)
Course 3 - Project (70\%) D1 (11)
Course 4 - Project (70\%) A5 (18)
Course 5 - Essay (60\%) B3 (15)
Course 6 - Literature review (50\%) C3 (12)
Course 6 - Essay (50\%) B2 (16)
All courses carry 20 credits. As the courses carry equal credit weighting, this is not shown here as being factored into the calculation:
Baseline taught courses GPA $=$ (Essay Course $1+$ Essay Course $1+$ Seminar Course $2+$ Essay Course $3+$ Project Course $3+$ Project
Course $4+$ Essay Course $5+$ Literature review Course $6+$ Essay course 6) / weighting of completed components
$=[(16 \times 0.5)+(14 \times 0.5)+(18 \times 0.4)+(15 \times 0.3)+(11 \times 0.7)+(18 \times 0.7)+(15 \times 0.6)+(12 \times 0.5)+(16 \times 0.5)] /(0.5+0.5+0.4+0.3+0.7+$ $0.7+0.6+0.5+0.5)$
$=14.8936=14.9$ to 1 decimal place

## Final taught courses GPA

By 15 March the student had completed $78.5 \%$ of all taught course assessment, i.e. more than $65 \%$ of the taught assessment required for the award so in order to calculate final taught courses GPA, assessment results that are equal to or above the baseline GPA will be included, and any assessment results that are below the baseline GPA or are not taken will be disregarded.

Components completed after 15 March:
Course 1 - none
Course 2 - Exam (60\%) B2 (16 grade points) - Include in final GPA
Course 3 - none
Course 4 - Exam (30\%) C3 (12) - Disregard as < 14.9
Course 5 - Exam (40\%) C1 (14) - Disregard as < 14.9
Course 6 - none

Recalculating Baseline GPA to arrive at final GPA as follows:
Final taught courses GPA = (Components included in baseline GPA + additional components included after 15 March) / total proportion of included assessment.

$$
\begin{aligned}
& =[(16 \times 0.5)+(14 \times 0.5)+(18 \times 0.4)+(15 \times 0.3)+(11 \times 0.7)+(18 \times 0.7)+(15 \times 0.6)+(12 \times 0.5)+(16 \times 0.5)+(16 \times 0.6)] /(0.5 \\
& +0.5+0.4+0.3+0.7+0.7+0.6+0.5+0.5+0.6) \\
& =15.0189 \text { rounded to } 15.0
\end{aligned}
$$

## Example 6: PGT programme, 120 credits of taught courses comprised of five 20 credit courses and two 10 credit courses - less than

 $65 \%$ of assessment completed by 15 March. Two components of assessment not submitted.A PGT programme consisting of 120 credits of taught courses and a 60 credit independent work (project or dissertation). Proportion of completed assessment relates only to the amount of assessment completed across the taught courses. The independent work must also be submitted.

One essay was not submitted in semester 1 with Good Cause accepted; one essay was not submitted in semester 2 but without Good Cause.

|  | Semester 1 | Course grade | Semester 2 <br> By 15 March 2020 | Course grade | Component grade points to include in baseline GPA | Completed after 15 March, including April/May assessment diet |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Taught courses |  |  |  |  |  |  |
| Course 1 20 credits | $\begin{aligned} & \text { Essay (50\%) MV; } \\ & \text { Essay (50\%) C1 } \\ & \hline \end{aligned}$ | MV |  |  | 14 (50\% component) |  |
| Course 2 20 credits | Seminar (40\%) A5 | NYA |  |  | 18 (40\% component) | Exam (60\%) B2 |
| Course 3 20 credits | Essay (30\%) B3; Project (70\%) D1 | C3 |  |  | 15 (30\% component) <br> 11 (70\% component) |  |
| Course 4 20 credits |  |  | Project (70\%) A5 | NYA | 18 (70\% component) | Exam (30\%) C3 |
| Course 5 10 credits |  |  | Essay (60\%) CW | NYA | 0 (60\% component) | Exam (40\%) C1 |
| Course 6 10 credits |  |  | Test (25\%) C3 | NYA | 12 (25\% component) | Exam (75\%) D1 |
| Course 7 20 credits |  |  | $\begin{aligned} & \text { Literature review } \\ & (50 \%) \text { C3 } \\ & \text { Essay (50\%) B2 } \\ & \hline \end{aligned}$ | C1 | 12 (50\% weighting 16 (50\% weighting) |  |

NYA = not yet available CW = not submitted, no Good Cause
MV = not submitted with Good Cause

## Volume of assessment completed by $\mathbf{1 5}$ March 2020

|  | Completed components of <br> assessment | Proportion of taught course <br> assessment represented <br> by the course (\%) | Amount of taught course assessment <br> complete across the programme (\%) |
| :--- | :--- | :--- | :--- |
| Course 1 <br> 20 credits | Essay (50\%) | 16.7 | $16.7 \times 0.5=8.4$ |
| Course 2 <br> 20 credits | Seminar (40\%) | 16.7 | $16.7 \times 0.4=6.7$ |
| Course 3 <br> 20 credits | Essay (30\%) <br> Project (70\%) | 16.7 | $16.7 \times 1.0=16.7$ |
| Course 4 <br> 20 credits | Project (70\%) | 16.7 | $16.7 \times 0.7=11.7$ |
| Course 5 <br> 10 credits | Test (25\%) | 8.3 | $8.3 \times 0.25=2.08$ |
| Course 6 <br> 10 credits | 8.3 | $16.7 \times 1.0=16.7$ |  |
| Course 7 <br> 20 credits | 16.7 | 0.0 |  |

In this case, by 15 March 2020, the student has completed $62.3 \%$ of the assessment.

## Baseline taught courses GPA

PGT programme where courses are not all equally weighted.
The baseline taught courses GPA is calculated from assessment components. No reference should be made to rounded course grades (e.g. where all assessment was completed in semester 1 and a final overall course grade is available).

Student's baseline taught courses GPA is calculated aggregating components of assessment completed by 15 March.
All assessment components should be aggregated using the appropriate component weighting and course credit weighting.

Example 4 shows the following components completed by 15 March:
Course 1 (20 credit course) - Essay (50\%) C1 (14 grade points)
Course 2 (20 credit course) - Seminar (40\%) A5 (18)
Course 3 (20 credit course) - Essay (30\%) B3 (15); Project (70\%) D1 (11)
Course 4 (20 credit course) - Project (70\%) A5 (18)
Course 5 (10 credit course) - Essay (60\%) H (0)
Course 6 (10 credit courses) - Test (25\%) C3 (12)
Course 7 ( 20 credit course) - Literature review (50\%) C3 (12); Essay (50\%) B2 (16)
The $60 \%$ weighted essay for Course 5 was not submitted, without good cause. The baseline GPA will include zero grade points (grade H ) weighted appropriately.

Components contributing to the taught courses GPA baseline:

| Course / component | Component <br> result | Grade points | Weighting <br> (Component x <br> course credits) | Grade points |
| :--- | :--- | :--- | :--- | :--- |
| Course 1 Essay | C1 | 14 | $0.5 \times 20$ | 140 |
| Course 2 Seminar | A5 | 18 | $0.4 \times 20$ | 144 |
| Course 3 Essay | B3 | 15 | $0.3 \times 20$ | 90 |
| Course 3 Project | D1 | 11 | $0.7 \times 20$ | 154 |
| Course 4 Project | A5 | 18 | $0.7 \times 20$ | 252 |
| Course 5 Essay | H | 0 | $0.6 \times 10$ | 0 |
| Course 6 Test | C3 | 12 | $0.25 \times 10$ | 30 |
| Course 7 Literature review | C3 | 12 | $0.5 \times 20$ | 120 |
| Course 7 Essay | B2 | 16 | $0.5 \times 20$ | 160 |
|  |  |  | $\mathbf{1 0 9 0}$ |  |

[^1]
## Final taught courses GPA

By 15 March the student had completed $62.3 \%$ of all taught course assessment, i.e. less than the $65 \%$ of the assessment required for the award, so in order to calculate final taught courses GPA, assessment results that are equal to or above the baseline taught courses GPA will be included. If this still leaves less than 65\% completed, further assessment results, starting with the best must be included in the final taught courses GPA.

Components completed after 15 March:
Course 1 (20 credit course) - none
Course 2 (20 credit course) - Exam (60\%) B2 (16 grade points) - Include in final GPA
Course 3 (20 credit course) - none
Course 4 (20 credit course) - Exam (30\%) C3 (12) - Disregard as < 13.5
Course 5 (10 credit course) - Exam (40\%) C1 (14) - Include in final GPA
Course 6 (10 credit course) - Exam (75\%) D1 (11) - Disregard as < 13.5
Course 7 (20 credit course) - none

Assessment components to be included in final taught courses GPA: Course 2 exam and Course 5 exam. This brings the total amount of assessment included in the GPA to $62.3 \%+(0.6 \times 16.7 \%)+(0.4 \times 8.3 \%)=75.6 \%$. This means that the minimum of $65 \%$ of taught course assessment is included and gives a final taught courses GPA.

Recalculating taught courses baseline GPA to arrive at final GPA as follows:

| Course / component | Component <br> result | Grade points | Weighting <br> (Component x <br> course credits) | Grade points |
| :--- | :--- | :--- | :--- | :--- |
| Course 1 Essay | C1 | 14 | $0.5 \times 20$ | 140 |
| Course 2 Seminar | A5 | 18 | $0.4 \times 20$ | 144 |
| Course 2 Exam | B2 | $\mathbf{1 6}$ | $\mathbf{0 . 6 \times 2 0}$ | $\mathbf{1 9 2}$ |
| Course 3 Essay | B3 | 15 | $0.3 \times 20$ | 90 |
| Course 3 Project | D1 | 11 | $0.7 \times 20$ | 154 |
| Course 4 Project | A5 | 18 | $0.7 \times 20$ | 252 |
| Course 5 Essay | H | 0 | $0.6 \times 10$ | 0 |
| Course 5 Exam | C1 | $\mathbf{1 4}$ | $\mathbf{0 . 4 \times 1 0}$ | $\mathbf{5 6}$ |
| Course 6 Test | C3 | 12 | $0.25 \times 10$ | 30 |
| Course 7 Literature review | C3 | 12 | $0.5 \times 20$ | 120 |


| Course 7 Essay | B2 | 16 | $0.5 \times 20$ | 160 |
| :--- | :--- | :--- | :--- | :--- |
|  |  | Totals | 96.5 | 1338 |

Final taught courses GPA = Grade points / weighted components
= $1338 / 96.5$
$=13.8653$ rounded to 13.9

Example 7: Ordinary/designated degree final year student - year 3 curriculum consisting of three Level 320 credit courses and three Level $2 \mathbf{2 0}$ credit courses. Less than 65\% of L3 assessment on 60 credits complete.

Proportion of completed programme assessment takes into account the assessment completed in years 1 and 2. Students must complete at least $65 \%$ of the total assessment over the 360 credits included in the curriculum over three years of study. In addition they must meet requirements in relation to $65 \%$ of the assessment associated with 60 of the L3 credits.

|  |  | Semester 1 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

NYA = not yet available

## Volume of assessment completed by $\mathbf{1 5}$ March 2020

In this case the student completed all assessment from years 1 and 2 ( $66.6 \%$ of the total assessment for the programme) so it is clear that they have already met the requirement for at least $65 \%$ of the programme assessment to be complete. (Where course grades have been returned for all year 1 and year 2 courses, this can be assumed.)

This degree's regulations also require students to achieve a GPA of at least 9.0 across 60 credits at Level 3 . The volume of assessment completed by 15 March on the three Level 3 courses is as follows. Each of the three Level 3 courses carries $33.3 \%$ of the total assessment required to meet this regulation:

|  |  | Amount of L3 assessment complete <br> across the 60 credits (\%) | Amount of assessment complete across <br> year 3 (required for baseline Programme <br> GPA calculation) (\%) |  |  |  |
| :--- | :--- | :--- | :--- | :---: | :---: | :---: |
| Course 1 (Level 3) | Essay (50\%) <br> Essay (50\%) | 33.3 | 16.67 |  |  |  |
| Course 2 (level 2) | Seminar (40\%) |  | 6.67 |  |  |  |
| Course 3 (level 2) | Essay (30\%) <br> Project (70\%) |  | 16.67 |  |  |  |
| Course 5 (Level 3) | Essay (60\%) | 20.0 | 10 |  |  |  |
| Course 6 (Level 3) | Class test (30\%) | 10.0 | 5 |  |  |  |
| Total |  |  |  |  | 63.3 | 55 |

## GPA Calculations

There are two GPA values to be achieved for this award: A) the Programme GPA and B) the GPA for 60 Level 3 Credits.

## A) Programme GPA

## Baseline programme GPA

All three years of assessment (totalling 360 credits) contribute equally to the calculation of final grade point average ( $33.3 \%$ each).
The baseline GPA is based on assessments completed in years 1 and 2 and by 15 March in year 3. GPAs for years 1 and 2 are calculated by aggregating course grades. The GPA for year 3, however, is calculated from assessment components only, and no reference should be made to rounded course grades (e.g. for Course 1 where all assessment was completed in semester 1 and a final overall course grade is available).

Baseline programme GPA requires two things to be aggregated:

1. GPA from assessment completed in years 1 and 2

Example 7 gives a value of 10.75 and 11.125 for years 1 and 2 respectively. (Unrounded GPAs should be used.)

## 2. GPA from components of all year 3 assessment completed by 15 March (Levels 2 and 3)

All assessment components (NOT course results) should be aggregated using the appropriate course and component weighting.
Example 7 shows the following components completed by 15 March:
Course 1 - Essay (50\%) C1 (14 grade points)
Course 1 - Essay (50\%) E1 (8)
Course 2 - Seminar (40\%) C3 (12)
Course 3 - Essay (30\%) B3 (15)
Course 3 - Project (70\%) D1 (11)
Course 4 - no assessment completed yet
Course 5 - Essay (60\%) D2 (10)
Course 6 - Class test (30\%) E1 (8)
All courses carry 20 credits. As the courses carry equal credit weighting, this is not shown here as factored into the calculation:
Year 3 assessment components contributing to programme baseline GPA = (Essay Course $1+$ Essay Course $1+$ Seminar Course $2+$ Essay Course 3 + Project Course 3 + Essay Course 5 + Class test Course 6) / weighting of completed components
$=[(14 \times 0.5)+(8 \times 0.5)+(12 \times 0.4)+(15 \times 0.3)+(11 \times 0.7)+(10 \times 0.6)+(8 \times 0.3)] /(0.5+0.5+0.4+0.3+0.7+0.6+0.3)$
$=36.4 / 3.3$
$=11.0303$ rounded to 11.0
The year 3 GPA is based on $55 \%$ of the year's assessment which is complete by 15 March.
Baseline programme GPA aggregates 1. and 2.
Baseline programme GPA $=($ Year 1 GPA + Year 2 GPA + completed proportion of Year 3 GPA $) /$ proportion of programme assessment completed

$$
\begin{aligned}
& =(10.75 \times 0.333)+(11.125 \times 0.333)+(11.0303 \times 0.55 \times 0.333) /[0.333+0.333+(0.55 \times 0.333)] \\
& =9.3046 / 0.8492 \\
& =10.9569 \text { rounded to } 11.0
\end{aligned}
$$

## Final Programme GPA

By 15 March the student had completed more than 65\% of all programme assessment, so in order to calculate final programme GPA, assessment results from after 15 March that are equal to or above the baseline programme GPA will be included, and any assessment results that are below the baseline or are not taken will be disregarded.

Components completed after 15 March:
Course 1 - none
Course 2 - none
Course 3 - none
Course 4 - Project (70\%) C1 (14 grade points) - Include in final GPA
Course 5 - Exam (40\%) D1 (11) - Include in final GPA
Course 6 - Exam (70\%) C1 (14) - Include in final GPA
All assessment components completed after 15 March will be included in final GPA as all results are either equal to or greater than the baseline.

Additional components to be included in final programme GPA = [Course 4 Project (70\%) + Course 5 Exam (40\%) + Course 6 Exam (70\%)] / weighting of additional components

$$
\begin{aligned}
& =[(14 \times 0.7)+(11 \times 0.4)+(14 \times 0.7)] /(0.7+0.4+0.7) \\
& =24 / 1.8 \\
& =13.3333
\end{aligned}
$$

Proportion of Year 3 assessment represented by the additional components (from the 6 Year 3 courses)

$$
\begin{aligned}
& =(0.7+0.4+0.7) / 6 \\
& =0.3
\end{aligned}
$$

Recalculating Baseline programme GPA to arrive at final programme GPA as follows:
Final programme GPA $=($ Year 1 GPA + Year 2 GPA + proportion of Year 3 GPA in baseline + proportion of Year 3 GPA after 15 March $) /$ proportion of programme assessment included

```
            \(=(10.75 \times 0.333)+(11.125 \times 0.333)+(11.0303 \times 0.55 \times 0.333)+(13.3333 \times 0.3 \times 0.333) /[0.333+0.333+(0.55 \times\)
            \(0.333)+(0.3 \times 0.333)]\)
\(=10.6366 / 0.9491\)
```

$=11.207$ rounded to 11.2

## B) Level $\mathbf{3}$ GPA on $\mathbf{6 0}$ credits

The requirements for the degree include that a GPA of at least 9.0 should be achieved across 60 credits at Level 3 . In this case the student's curriculum has only 60 credits at L3 from three courses, so all of these results must be used for this calculation. By the time of the final exam board it may be obvious that this requirement has been met (e.g. if all assessment on the three courses has been completed and the GPA is at least 9.0). As this GPA does not determine the award of classification Schools may wish to be pragmatic about whether the actual GPA is calculated in every case. The steps to be followed where a calculation is necessary are set out below.

## Baseline Level 3 GPA

To calculate the GPA on the L3 credits a baseline GPA should be calculated using components of assessment completed by 15 March:
Components completed by 15 March:
Course 1 - Essay (50\%) C1 (14 grade points); Essay (50\%) E1 (8)
Course 5 - Essay (60\%) D2 (10)
Course 6 - Class test (30\%) E1 (8)
As all Level 3 courses carry 20 credits, this is not shown here as factored into the calculation.
Baseline L3 GPA = (Grade points $\times$ completed component weightings) / weighting of completed components
$=[(14 \times 0.5)+(8 \times 0.5)+(10 \times 0.6)+(8 \times 0.3)] /(0.5+0.5+0.6+0.3)$
= 19.4 / 1.9
$=10.2105$ rounded to 10.2
Final Level 3 GPA

$$
\begin{aligned}
\text { The proportion of L3 assessment (3 courses) completed by } 15 \text { March }= & (\text { weighting of assessments }) / 3 \\
& =(0.5+0.5+0.6+0.3) / 3 \\
& =63.4
\end{aligned}
$$

The student has not yet completed $65 \%$ of the L3 assessment so in order to calculate final GPA, assessment results that are equal to or above the baseline L3 GPA (10.2) will be included. If this still leaves less than $65 \%$ completed, further assessment results, starting with the best must be included in the final GPA. [In cases where $65 \%$ of the L3 assessment has been completed by 15 March, and where the baseline GPA is at least 9.0 , no further calculation is needed.]

Components completed after 15 March:
Course 1 - none
Course 5 - Exam (40\%) D1 (11 grade points) - Include in final GPA
Course 6 - Exam (70\%) C1 (14) - Include in final GPA
Adding in the Course 5 exam and the Course 6 exam represents an additional ( $0.4+0.7$ ) $/ 3=0.0367$, i.e. $36.7 \%$ of the assessment for the selected Level 3 courses. The total L3 assessment completed has therefore reached the $65 \%$ minimum level. (In this case $100 \%$ of the assessment from the three selected L3 courses is included.)

Recalculating baseline GPA to arrive at Final Level 3 GPA $=$ (Components included in baseline GPA + additional components completed after 15 March) / proportion of assessment included.
$=[(14 \times 0.5)+(8 \times 0.5)+(10 \times 0.6)+(8 \times 0.3)+(11 \times 0.4)+(14 \times 0.7)] /(0.5+0.5+0.6+0.3+0.4+0.7)$
$=33.6 / 3$
$=11.2$

## Example 8: Ordinary/designated degree final year student - Year 3 curriculum consisting of six Level 320 credit courses. Less than

 $65 \%$ of the assessment completed by 15 March on 60 credits of Level 3 courses.Proportion of completed programme assessment takes into account the assessment completed in years 1 and 2 . Students must complete at least $65 \%$ of the total assessment over the 360 credits included in the curriculum over three years of study. In addition they must meet requirements in relation to $65 \%$ of the assessment associated with 60 of the L3 credits.

|  | Semester 1 | Course grade | Semester 2 <br> By 15 March <br> 2020 | Course grade | Baseline programme GPA to include | Include in L3 baseline GPA (if the course is selected as one of the three required for the 60 credit GPA) | Completed after 15 March, including April/May assessment diet |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year 1 |  |  |  |  | $\begin{aligned} & 10.75 \text { (all assessment } \\ & \text { complete) } \end{aligned}$ |  |  |
| Year 2 |  |  |  |  | $\begin{array}{\|l\|} \hline 11.125 \text { (all } \\ \text { assessment complete) } \\ \hline \end{array}$ |  |  |
| Year 3 |  |  |  |  |  |  |  |
| Course 1 (Level 3) 20 credits | Essay (50\%) C1 |  |  |  | 14 (50\% component) | 14 (50\% component) | Essay (50\%) E1 |
| Course 2 (Level 3) 20 credits | Seminar (40\%) C3 | NYA |  |  | 12 (40\% component) | 12 (40\% component) | Exam (60\%) B3 |
| Course 3 (Level 3) 20 credits | Project (70\%) D1 |  |  |  | 11 (70\% component) | 11 (70\% component) | Essay (30\%) B3; |
| Course 4 (Level 3) 20 credits |  |  |  |  |  |  | Project (70\%) C1; <br> Exam (30\%) D2 |
| Course 5 (Level 3) 20 credits |  |  | $\begin{aligned} & \text { Essay (60\%) } \\ & \text { D2 } \end{aligned}$ |  | 10 (60\% component) | 10 (60\% component) | Exam (40\%) D1 |
| Course 6 (Level 3) 20 credits |  |  | $\begin{aligned} & \text { Class test } \\ & (30 \%) \text { E1 } \end{aligned}$ |  | 8 (30\% component) | 8 (30\% component) | Exam (70\%) C1 |

## Volume of assessment completed by 15 March 2020

In this case the student completed all assessment from years 1 and 2 ( $66.6 \%$ of the total assessment for the programme) so it is clear that they have already met the requirement for at least $65 \%$ of the programme assessment to be complete. (Where course grades have been returned for all year 1 and year 2 courses, this can be assumed.)

This degree's regulations also require students to complete at least $65 \%$ of assessment across 60 credits at Level 3, and to achieve a GPA of at least 9.0 across 60 credits at this level. As shown in the table below, taking the three L3 courses ( 60 credits) with the most complete proportion of the assessment, the best completion rate is $60 \%$ which is under the required $65 \%$.

|  | Components <br> completed | Amount of L3 assessment, <br> across most complete 60 <br> credits of courses (\%) | Amount of assessment complete across year 3 (required for <br> baseline Programme GPA calculation) (\%) |
| :--- | :--- | :--- | :--- |
| Course 1 | Essay (50\%) | 16.65 |  |
| Course 2 | Seminar (40\%) |  | 8.3 |
| Course 3 | Project (70\%) | 23.33 | 6.65 |
| Course 4 | none | 11.7 |  |
| Course 5 | Essay (60\%) | 20.0 | 10 |
| Course 6 | Class test (30\%) |  | 10 |
|  | Total | 60 | 51.65 |

## GPA Calculations

There are two GPA values to be achieved for this award: A) the Programme GPA and B) the GPA for 60 Level 3 Credits.

## A) Programme GPA

All three years of assessment (totalling 360 credits) contribute equally to the calculation of final grade point average ( $33.3 \%$ each).
The baseline GPA is based on assessments completed in years 1 and 2 and by 15 March in year 3. GPAs for years 1 and 2 are calculated by aggregating course grades. The GPA for year 3, however, is calculated from assessment components only, and no reference should be made to rounded course grades.

Baseline GPA requires two things to be aggregated:

## 1. GPA from assessment completed in years 1 and 2

Example 8 gives a value of 10.75 and 11.125 for years 1 and 2 respectively. (Unrounded GPAs should be used.)

## 2. GPA from components of year 3 assessment completed by $\mathbf{1 5}$ March

All assessment components (NOT course results) should be aggregated using the appropriate course and component weighting.
Example 6 shows the following components completed by 15 March:
Course 1 - Essay (50\%) C1 (14 grade points)
Course 2 - Seminar (40\%) C3 (12)
Course 3 - Project (70\%) D1 (11)
Course 4 - none
Course 5 - Essay (60\%) D2 (10)
Course 6 - Class test (30\%) E1 (8)
All courses carry 20 credits. As the courses carry equal credit weighting, this is not shown here as being factored into the calculation:
Year 3 assessment components contributing to programme baseline GPA = weighted component results / component weightings $=[(14 \times 0.5)+(12 \times 0.4)+(11 \times 0.7)+(10 \times 0.6)+(8 \times 0.3)] /(0.5+0.4+0.7+0.6+0.3)$
$=27.9 / 2.5$
$=11.16$
Proportion of year 3 assessment complete by 15 March = weighting of components / all assessment for the 6 year 3 courses

$$
\begin{aligned}
& =(0.5+0.4+0.7+0.6+0.3) / 6 \\
& =0.42, \text { i.e. } 42 \% \text { of the year's assessment is complete. }
\end{aligned}
$$

Baseline programme GPA aggregates 1. and 2., each year carrying a $33.3 \%$ weighting
Baseline programme GPA $=($ Year 1 GPA + Year 2 GPA + completed proportion of Year 3 GPA) / proportion of programme assessment completed

$$
\begin{aligned}
& =(10.75 \times 0.333)+(11.125 \times 0.333)+(11.16 \times 0.42 \times 0.333) /[0.333+0.333+(0.42 \times 0.333)] \\
& =8.8452 / 0.8059 \\
& =10.9756 \text { rounded to } 11.0
\end{aligned}
$$

## Final Programme GPA

By 15 March the student had completed more than $65 \%$ of all programme assessment, so in order to calculate final GPA, assessment results after 15 March that are equal to or above the baseline GPA will be included, and any assessment results that are below the baseline or are not taken will be disregarded.

Components completed after 15 March:
Course 1 - Essay (50\%) E1 (8 grade points) - Disregard as <11.0
Course 2 - Exam (60\%) B3 (15) - Include in final GPA
Course 3 - Essay (30\%) B3 (15) - Include in final GPA
Course 4 - Project (70\%) C1 (14) - Include in final GPA;
Course 4 - Exam (30\%) D2 (10) - Disregard as <11.0
Course 5 -Exam (40\%) D1 (11) - Include in final GPA
Course 6 - Exam (70\%) C1 (14) - Include in final GPA
Additional components to be included in final GPA = [Course 2 Exam (60\%) + Course 3 Essay (30\%) + Course 4 Project (70\%) + Course 5
Exam (40\%) + Course 6 Exam ( $70 \%$ )] / weighting of additional included components

$$
\begin{aligned}
& =[(15 \times 0.6)+(15 \times 0.3)+(14 \times 0.7)+(11 \times 0.4)+(14 \times 0.7)] /(0.6+0.3+0.7+0.4+0.7) \\
& =37.5 / 2.7 \\
& =13.8889
\end{aligned}
$$

Proportion of Year 3 assessment represented by the additional included components (from the 6 Year 3 courses)

$$
\begin{aligned}
& =(0.6+0.3+0.7+0.4+0.7) / 6 \\
& =0.45
\end{aligned}
$$

Recalculating programme baseline GPA to arrive at final GPA as follows:
Final programme GPA $=($ Year 1 GPA + Year 2 GPA + proportion of Year 3 GPA in baseline + proportion of Year 3 GPA after 15 March $) /$ proportion of programme assessment included
x 0.333)]

$$
\begin{aligned}
& =(10.75 \times 0.333)+(11.125 \times 0.333)+(11.16 \times 0.42 \times 0.333)+(13.8889 \times 0.45 \times 0.333) /[0.333+0.333+(0.42 \times 0.333)+(0.45 \\
& =10.9264 / 0.9557 \\
& =11.4328 \text { rounded to } 11.4
\end{aligned}
$$

## B) Level 3 GPA on 60 Credits

The requirements for the degree include that a GPA of at least 9.0 should be achieved across 60 credits at Level 3 . In this case the student's curriculum includes 120 L3 credits in Year 3 so 60 credits must be selected. By the time of the final exam board it may be obvious that this requirement has been met (e.g. if there are 60 credits where all assessment has been completed and the average GPA is at least 9.0 ). As this GPA does not determine the award of classification Schools may wish to be pragmatic about whether the actual GPA is calculated in every case. The steps to be followed where a calculation is necessary are set out below.

## Baseline Level 3 GPA

The baseline Level 3 GPA is calculated from assessment components from three courses selected to provide the 60 credits. No reference should be made to rounded course grades even when the assessment for these courses was complete in semester 1.

The baseline Level 3 GPA is calculated aggregating Level 3 components of assessment completed by 15 March using the appropriate component weightings. These assessments should come from selected courses that together total 60 credits.

For illustrative purposes, courses 1, 3 and 6 are selected from Example 8. The following Level 3 components are completed by 15 March:
Course 1 - Essay (50\%) C1 (14 grade points)
Course 3 - Project (70\%) D1 (11)
Course 6 - Class test (30\%) E1 (8)
All courses carry 20 credits. As the courses carry equal credit weighting, this is not shown as being factored into the calculation:
Level 3 baseline GPA $=[(14 \times 0.5)+(11 \times 0.7)+(8 \times 0.3)] /(0.5+0.7+0.3)$
$=17.1 / 1.5$
$=11.4$
Proportion of Level 3 assessment complete at 15 March is the sum of the completed weighted components / total assessment available for the three courses $=(0.5+0.7+0.3) / 3$

$$
=0.5 \text { which is } 50 \% \text {. }
$$

The student has achieved a baseline GPA of >=9.0 but this is based on completion of only $50 \%$ of the assessment on the 60 Level 3 credits. Further assessment is needed to meet the 65\% assessment completion requirement.

Results from assessments completed in the selected courses after 15 March that are equal to or above the baseline GPA will be included in the final GPA. If this still leaves less than $65 \%$ completed, further assessment results, starting with the best must be included in the final GPA.

Components completed after 15 March:
Course 1 - Essay (50\%) E1 (8 grade points) - Disregard as <11.4
Course 3 - Essay (30\%) B3 (15) - Include in final GPA
Course 6 - Exam (70\%) C1 (14) - Include in final GPA
Additional assessment components to be included in final L3 GPA are Course 3 Essay and Course 6 Exam
The volume of completed L3 credits assessment included in final GPA = proportion of assessment included in baseline + proportion from additional included components

$$
\begin{aligned}
& =[0.50+[(0.3+0.7) / 3] \\
& =0.833
\end{aligned}
$$

$83 \%$ of L3 assessment will now be included in the GPA.

## Final Level 3 GPA

Recalculating baseline GPA to arrive at final Level 3 GPA as follows:
Final Level 3 GPA $=$ Components included in baseline GPA + additional components completed after 15 March
$[(14 \times 0.5)+(11 \times 0.7)+(8 \times 0.3)+(15 \times 0.3)+(14 \times 0.7)] /(0.5+0.7+0.3+0.3+0.7)$
$=31.4 / 2.5$
$=12.56$ rounded to $\mathbf{1 2 . 6}$
The student has achieved a GPA of $>=9.0$ and has completed more than $65 \%$ of the assessment for the selected 60 Level 3 credits.

Example 9: Example showing the application of a penalty applied under the Code of Student Conduct for academic misconduct.
A student studying a PGT programme takes six 20 credit courses and a 60 credit dissertation. The student receives a grade H as a penalty for an online exam that represents $75 \%$ of a 20 credit course and was taken on 1 May 2020.

The grade $\mathrm{H}(0)$ must be included in the student's final GPA.
The student's full profile of grades is:

|  | Semester 1 | Course <br> grade | Semester 2 <br> By 15 March | Component grade points to <br> include in baseline GPA | Completed after 15 March, <br> including April/May assessment diet |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Course 1 | Essay C2 (50\%), <br> Essay D1 (50\%) | C3 |  | $13(50 \%$ weighting) <br> $11(50 \%$ weighting) |  |
| Course 2 | Essay C3 (50\%), <br> Test D2 (50\%) | D1 |  | $12(50 \%$ weighting) <br> $10(50 \%$ weighting) |  |
| Course 3 | Essay B3 (50\%), <br> Exam B3 (50\%) | B3 |  | $15(50 \%$ weighting) <br> $15(50 \%$ weighting) |  |
| Course 4 |  |  |  | Exam B2 (50\%) <br> Essay B3 (50\%) |  |
| Course 5 |  |  |  | Exam C2 (50\%) <br> Essay - missed assessment |  |
| Course 6 |  |  |  | Test D2 (25\%) <br> Exam H (75\%) Conduct Penalty |  |

If the student conduct penalty had been applied in relation to assessment completed by 15 March, the penalty will be reflected in the baseline GPA as all completed components must be included in that GPA calculation.

In this case the penalty is applied to assessment completed after 15 March. Under the No Detriment policy the general position is that assessment components completed after 15 March can be disregarded if they are at a level below the baseline GPA. However, where a penalty for academic misconduct is imposed on any such component, that component must be incorporated in calculation of the final GPA.

In the example, the baseline taught courses GPA is: (Essay Course $1+$ Essay Course $1+$ Essay Course $2+$ Test Course $2+$ Essay Course $3+$ Exam Course 3) / weighting of completed components


[^0]:    NYA = not yet available

[^1]:    Baseline GPA = Grade points / weighted components
    $=1090 / 80.5$
    $=13.5404$ rounded to 13.5

